



SLOVENSKI STANDARD
SIST IEC 60105:1999

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Recommendation for commercial-purity aluminium busbar material

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Recommandations concernant l'aluminium de pureté commerciale pour barres de connexion

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29.050	Superprevodnost in prevodni materiali	Superconductivity and conducting materials
29.240.20	Daljnovodi	Power transmission and distribution lines

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

RECOMMENDATION FOR COMMERCIAL-PURITY ALUMINIUM BUSBAR MATERIAL

FOREWORD

- (1) The formal decisions or agreements of the I.E.C. on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- (2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- (3) In order to promote this international unification, the I.E.C. expresses the wish that all National Committees having as yet no national rules, when preparing such rules, should use the I.E.C. recommendations as the fundamental basis for these rules in so far as national conditions will permit.
- (4) The desirability is recognized of extending international agreement on these matters through an endeavour to harmonize national standardization rules with these recommendations in so far as national conditions will permit. The National Committees pledge their influence towards that end.

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PREFACE

Over the past few years, Technical Committee No. 7: Aluminium, discussed at various times the necessity of preparing recommendations to cover commercial-purity aluminium busbars. However, it was not until the time of the Philadelphia meeting in September 1954, that any serious action was taken. Subsequent to this meeting a draft specification was prepared and submitted to the National Committees for comment. The draft was discussed and revised at the London meeting in July 1955, with the result that a final draft was submitted to the National Committees in October 1955 for approval under the Six Months' Rule.

During the voting the following countries voted explicitly in favour of publication:

Canada	Norway
Denmark	Sweden
Finland	Switzerland
France	Union of Soviet Socialist Republics
Germany	United Kingdom
Italy	United States of America
Japan	

The Recommendation in its present form was drawn up during the Munich meeting in July 1956, in order to take account of recommended minor editorial changes.

RECOMMENDATION FOR COMMERCIAL-PURITY ALUMINIUM BUSBAR MATERIAL

1. Scope

This Recommendation applies to commercial-purity aluminium busbar material.

2. Object

The object of this Recommendation is to prescribe the electrical properties of commercial-purity aluminium for such bars, regardless of the cross-sectional shape of the bars.

3. Resistivity

3.1 The volume resistivity shall not exceed 0.0290 ohm.mm²/m (17.444 ohm.cir mil/ft) at 20°C.

3.2 The errors of measurements, which, taken together, shall not be greater than 3 parts in one thousand, are included in this value.

3.3 When determining the resistivity, measurements shall be made at a temperature not less than 10°C nor more than 30°C. The values obtained shall be corrected to 20°C.

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Note :

For the purposes of this Recommendation and for calculation, the following physical properties at 20°C shall be taken:

Density	2.703 kg/dm ³ (0.09765 lb/in ³)
Constant mass temperature coefficient of resistance per Centigrade degree	0.00393
Coefficient of linear expansion per Centigrade degree	0.000023